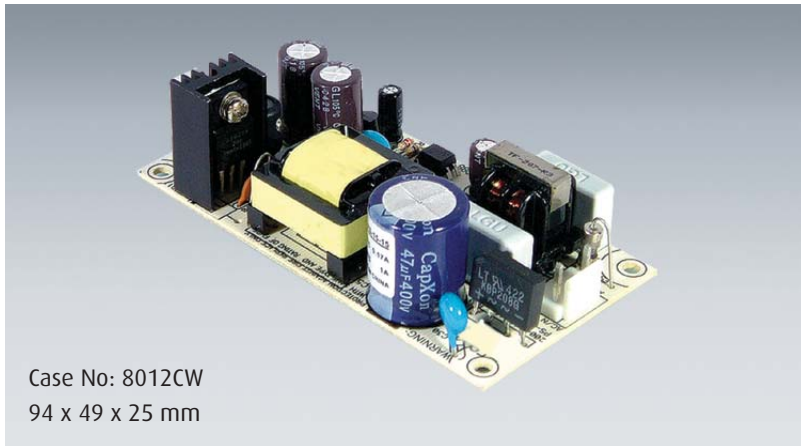


PS-15 Series

15W Single Output Switching Power Supply



Case No: 8012CW
94 x 49 x 25 mm

Features

- Universal AC input/ Full range
- Low leakage current <0.5mA
- Protections: Short circuit, Overload Over voltage and Over temperature
- Cooling by free convection
- 100% full load burn-in test
- Fixed switching frequency at 67KHz
- Low cost, High reliability



Specification

INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 370VDC.				
	Frequency	47 ----- 63 Hz				
	Current	<0.4A@115VAC; 0.2A@230VAC full load				
	Inrush Current	<40A@230VAC Cold start				
	Leakage Current	<0.5mA@240VAC				
OUTPUT	MODEL No.	PS-15-5	PS-15-12	PS-15-15	PS-15-24	PS-15-48
	Voltage	5V	12V	15V	24V	48V
	Rated Current	2.8A	1.25A	1A	0.625A	0.313A
	Current Range	0~2.8A	0~1.25A	0~1A	0~0.625A	0~0.313A
	Output Tolerance	± 2%	± 2%	± 2%	± 2%	± 2%
	Line Regulation	± 1%	± 1%	± 1%	± 0.5%	± 0.5%
	Load Regulation	± 1%	± 1%	± 1%	± 0.5%	± 0.5%
	Ripple Noise MAX.	100mV	120mV	120mV	150mV	200mV
	Efficiency (TYP.)	74%	77%	78%	79%	77%
	Rated Power	14W	15W	15W	15W	15W
PROTECTION	Over Voltage	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V
	Over Load	Shut off o/p voltage, clamping by zener diode Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed				
ELEC. CHAR.	Rise Time	5~24V: 30mS; 48V: 75mS at full load				
	Hold up Time	>0.1mS at full load				
	Setup Time	5~48V: 1.2Sec				
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C				
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH				
SAFETY	Withstand Voltage	I/P-O/P3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC				
	Safety Standard	IEC60950-1 CB Approved by TUV				
EMC	EMI	EN55022 (CISPR22), EN61000-3-2,3				
	EMS	EN61000-4-2,3,4,5,6,8,11; Light industry level, criteria A				
OTHERS	Cooling	Cooling by free air convection				
	M.T.B.F.	681.7K hrs min. MIL-HDBK-217F (°C)				
	Packing	0.083Kg; 120pcs/10.96Kg				

1 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature

2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor

3 Tolerance: includes set up tolerance, line regulation and load regulation

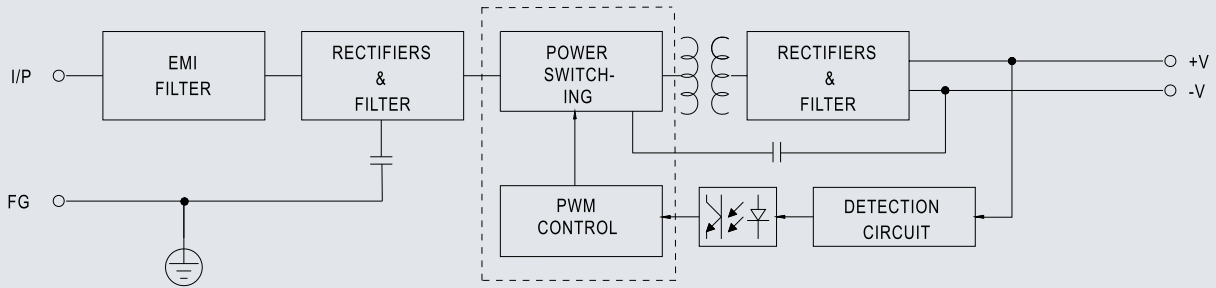
4 The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives

PS-15 Series

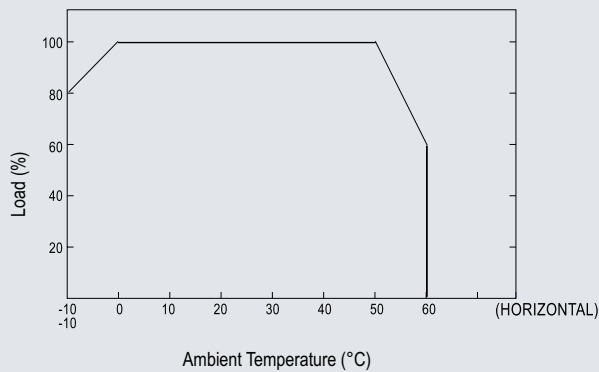
15W Single Output Switching Power Supply



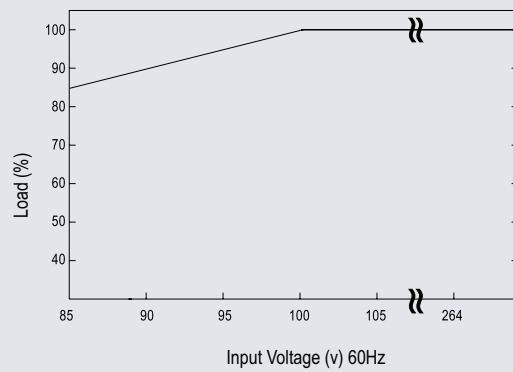
Block Diagram



De-Rating Curve



Static Characteristics



Dimensions

AC Input Connector (CN1): JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent

DC Output Connector (CN2): JST B2P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent

